

Automation for: **SLIDING GATES**



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Your selection guide

Sliding gate operators

The table summarises the series and models along with their maximum limits to use only based on the weight of the gate leaves.

Series	Model	Max gate-leaf weight (Kg/lb)
		Max gate-leaf weight (Kg/lb)
Bx-243	BX-243	300/660
	BX-243C	
Bx	BX-74	400/880
	BX-246	600/1,320
	BX-P	
	BX-78	800/1,760
	BX-10	
Bk	BK-800	● 230 V AC INTENSIVE USE
	BK-1200	1,200/2,640
	BK-1200P	
	BKE-1200	
	BK-1800	1,800/3,970
	BKE-1800	
	BK-2200	2,200/4,850
	BK-221	● 230 V AC INTENSIVE USE
	BKE-2200	
	BK-2200T	
By-3500T	BY-3500T	3,500/7,720

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE



The 24 V DC versions are specifically designed for intensive use and are guaranteed to work even during blackouts.



The 230 – 400 V AC 3-PHASE versions are intended for industrial use as they guarantee greater surge rates of the gearmotors in the starting phase.

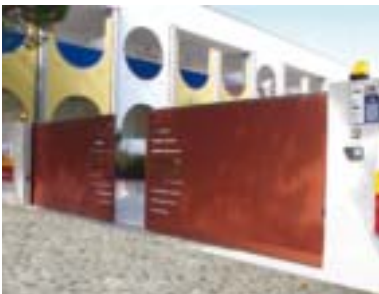
Sliding gates



RIGHT OR LEFT opening

All Came sliding gate operators are made to open on the left side (operator side view). To install on the right, invert the motor phases and endpoint connection, as shown in the installation manuals.

Series: Bx-243



SIMULTANEOUS opening

The range of Came sliding gate operators allows you to install two operators opposite each other.

Series: Bk



Industrial APPLICATION

In industrial installations that see passage of trailer-trucks, semi-trailers and forklifts, it is always advisable to install infrared beam photocells at two heights.

This is to prevent gate closings if vehicles stop in the passage zone.

Series: By-3500T

The flashing light: for added safety

Came suggests the installation of the flashing light to indicate the presence of moving mechanical parts.

Also, KIARON and KIARO24IN provide easy programming of law-prescribed periodic maintenance, thanks to their “manoeuvre counter” function. With this, installers can decide on a number of cycles, and once the limit is reached, an additional light signal warns that scheduled maintenance required.



European Standards

An example of a European Regulation-compliant standard installation



Installation: **ON PUBLIC PREMISES**

The system is installed in a public area or bordering with a public area.
Example: a private gate that opens and closes on a town street or sidewalk.



User Type: **TRAINED**

The system is activated only by users trained to use the automation.



Standard command type: **RADIO COMMAND**

It allows the system control either by remote or fixed device impulses.



Solutions for a safe installation: **SAFETY SENSITIVE EDGES AND INFRARED-BEAM PHOTOCELLS**

Thanks to the special onboard mechanism, the sensitive safety edges are completely collapsible and have no rigid parts – to guarantee top level protection.



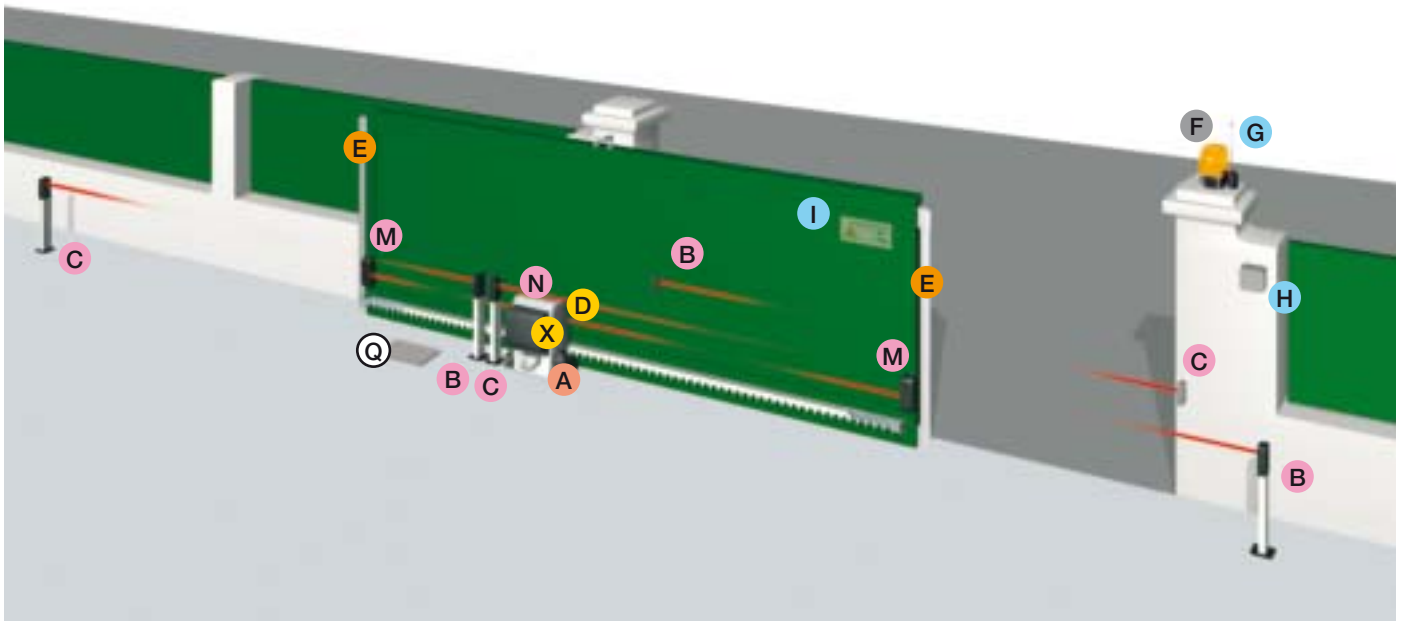
EN TESTED: CAME's added value

When you use EN-TESTED operators and control panels you need not install any sensitive safety edges. In this case, however, the impact forces need to be measured for compliance against the parameters established in the regulations.



This product is tested for compliance with maximum impact force standards established by EN 12445 and EN 12453 Technical Regulations.

Sliding GATE



The products

- A** Sliding gate operator
- B** TX photocells
- C** RX photocells
- D** Control and emergency battery charge card
- E** Safety sensitive edges
- F** Flashing light
- G** Antenna
- H** Command switch
(key – code – card or transponder keyfob).
- I** Gate plate
- M** TX cordless photocells
- N** TX photocells
- Q** Junction box
- X** Radio receiver

Control panel and radio receiver are built-into the operator (excluding: 001BK-2200T)

Which cables to use

Cable length (m/ft)	< 10 m / 32.80 ft	10 ÷ 20 m / 32.80 ÷ 65.62 ft	20 ÷ 30 m / 65.62 ÷ 98.42 ft
230 V AC power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC 3-PHASE power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
230 V AC motor power supply	3G x 1.5 mm ² / AWG14	3G x 1.5 mm ² / AWG14	3G x 2.5 mm ² / AWG12
230 - 400 V AC 3-PHASE motor power supply	4G x 1.5 mm ² / AWG14	4G x 1.5 mm ² / AWG14	4G x 2.5 mm ² / AWG12
24 V DC motor power supply	2G x 1.5 mm ² / AWG14	2G x 1.5 mm ² / AWG14	2G x 2.5 mm ² / AWG12
Endstop microswitches	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
24 V AC - DC and 25 W flashing light	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16	2 x 1 mm ² / AWG16
230 V AC and 25 W flashing light	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14	2 x 1.5 mm ² / AWG14
TX photocells	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20	2 x 0.5 mm ² / AWG20
RX photocells	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20	4 x 0.5 mm ² / AWG20
Command devices	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20	*n° x 0.5 mm ² / AWG20
Antenna		RG58 10 m max / 32.8 ft	

*n° = see product assembly instructions - **Warning:** the cable section is merely indicative and may vary depending on the motor power and cable length.




Complete sets



001U9615 Bx-243 basic



Complete system kit with 24 V DC operator for sliding gates of up to 300 Kg / 660 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001 BX-243 	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.	1
001 AF43S	Plug-in radio frequency card.	1
001 DIR10 	Pair of photocells. Range: 10 m / 32.8 ft.	1
001 TOP-432NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001 KIAR024N 	Flashing light.	1
	Gate plate.	1






Complete sets



001U9651 Bx-243 plus

Complete system kit with 24 V DC operator for sliding gates of up to 300 Kg / 660 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001 BX-243 	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.	1
001 AF43S	Plug-in radio frequency card.	1
001 DOC-E 	Pair of photocells. Range: 18 m / 59 ft.	1
001 TOP-432NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001 TOP-A433N	Antenna.	1
001 TOP-RG58	Antenna cable.	m 5
001 KIAR024N 	Flashing light.	1
001 SET-J	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Gate plate.	1



Complete sets



001U2914 Bx basic

Complete system kit with 230 V AC operator for sliding gates of up to 400 Kg / 880 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001 BX-74	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 400 Kg / 880 lb and max 14 m / 45.93 ft in length.	1
001 AF43S	Plug-in radio frequency card.	1
001 DIR10	Pair of photocells. Range: 10 m / 32.8 ft.	1
001 TOP-432NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001 KIARON	Flashing light.	1
	Gate plate.	1





Complete sets



001U2915 Bx plus

Complete system kit with 230 V AC operator for sliding gates of up to 400 Kg / 880 lb tested in compliance with EN 12453 - EN 12445

Code	Description	Quantity
001 BX-74 	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 400 Kg / 880 lb and max 14 m / 45.93 ft in length.	1
001 AF43S	Plug-in radio frequency card.	1
001 DOC-E 	Pair of photocells. Range: 18 m / 59 ft.	1
001 TOP-432NA	Bi-channel multi-user transmitter. 4,096 combinations with self-learning function.	1
001 TOP-A433N	Antenna.	1
001 TOP-RG58	Antenna cable.	m 5
001 KIARON	Flashing light.	1
001 SET-J	Surface-mounted key switch with aluminium alloy casing, lock protecting flap-door and cylinder.	1
	Gate plate.	1



Bx-243



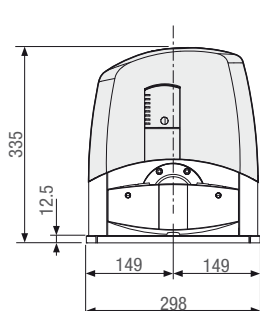
Gates of up to 300 Kg / 660 lb



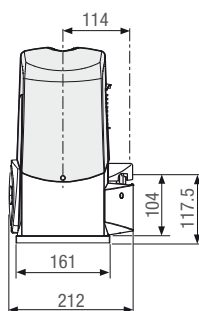
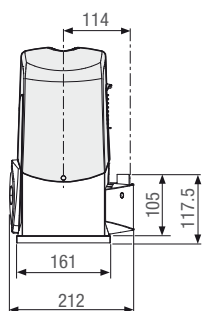
The ideal solution to apply to residential gates

- Tested according to applicable rules and regulations.
- Can function in emergency mode during blackouts.
- Thanks to the endstops which are built-in and protected in the gearmotor assembly, it is no longer a problem to install the operator in areas with critical weather conditions.
- Encoder-based movement control.
- Self-diagnosing safety devices.
- The control board is fitted horizontally, making it much more practical to make the necessary connections.

Dimensions (mm)



001BX-243



001BX-243C

Limits to use

MODEL	BX-243	BX-243C
Max gate-leaf weight (Kg/lb)	300/660	300/660
Max gate-leaf length (m/ft)	8.5/27.88	8.5/27.88
Pinion module (m)	4	-

● 24 V DC








Technical features

Type	BX-243 - BX-243C
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 AC
Motor power supply (V - 50/60 Hz)	24 DC
Current draw (A)	7 MAX
Power (W)	170
Manoeuvre speed (m/min - ft/min)	12/39.37
Duty cycle (%)	INTENSIVE USE
Thrust (N)	300
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	-

● 24 V DC

The complete range



Code	Description
Complete automation system with 24 V DC operator - tested in compliance with EN 12453 - EN 12445	
001BX-243	Automation system complete with control board, built-in radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and max 8.5 m / 27.88 ft in length.
  	
001BX-243C	Automation system with chain transmission device complete with control board, built-in radio decoder, encoder-based movement control and obstacle detection devices plus mechanical endstops for sliding gates of up to 300 Kg / 660 lb and 8.5 m / 27.88 in length.
  	
Accessories for: 001BX-243 and 001BX-243C	
002LB90	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
	
Racks for: 001BX-243	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZP	Rack in PA6 nylon and fibreglass with steel core 20 x 20 mm / 0.78 x 0.78 in, with securing holes and distancers, for sliding gates of up to 300 Kg / 660 lb.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.



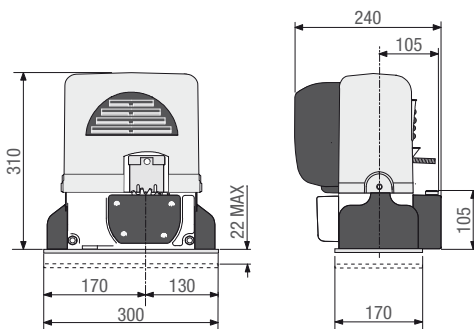
Gates of up to 800 Kg / 1,760 lb

The ideal solution to apply to gates subjected to intensive use



- 001BX-74 and 001BX-246: tested according to current legislative standards.
- A broad range is available to meet any requirements.
- Self-diagnosing safety devices.
- 001BX-10: evolved electronics with programming display, encoder-based deceleration and obstacle detections, and can memorise up to 250 users.
- PRATICO SYSTEM: to activate the radio release patented by Came, just add a snap-in radiofrequency card (this option is not possible for the 001AF30 and 001AF40 cards).
- 001BX-246: can work in emergency mode during blackouts.

Dimensions (mm)



Limits to use

MODEL	BX-74	BX-P	BX-246	BX-10	BX-78
Max gate-leaf weight (Kg/lb)	400/880	600/1,320	600/1,320	800/1,760	800/1,760
Max gate-leaf length (m/ft)	14/45.93	14/45.93	18/59.05	20/65.61	14/45.93
Pinion module (m)	4	4	4	4	4

● 230 V AC ● 24 V DC

NOTE:

For the activation of the 001BK-1200P's release device you need a plug-in radio frequency card of the same series you use for the automation radio command (excluding: 001AF30 - 001AF40).

Technical features

Type	BX-74	BX-P	BX-246	BX-10	BX-78
Protection rating IP	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	24 DC	230 AC	230 AC
Current draw (A)	2.6	2	10 MAX	2.4	2.4
Power (W)	200	230	400	300	300
Manoeuvre speed (m/min - ft/min)	10.5/ 34.44	17/ 55.77	6 ÷ 12 / 19.68 ÷ 39.37	10.5/ 34.44	10.5/ 34.44
Duty cycle (%)	30	30	INTENSIVE USE	30	30
Thrust (N)	300	600	700	800	800
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150	150	-	150/302	150/302

● 230 V AC ● 24 V DC

The complete range



Code	Description
Complete automation system with 230 V AC operator - tested in compliance with EN 12453 - EN 12445	
001BX-74	Automation system complete with control board, built-in radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 400 Kg / 880 lb and max 14 m / 45.93 in length.
Complete automation systems with 230 V AC operator	
001BX-P	Automation system complete with control board, built-in radio decoder and PRATICO SYSTEM radio release with a 12 V – 1.2 Ah battery for sliding gates of up to 600 Kg / 1,320 lb and max 14 m / 45.93 ft in length.
001BX-78	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 800 Kg / 1,760 lb and max 14 m / 45.93 ft in length.
001BX-10	Automation system complete with control board featuring function programming display, built-in radio decoder, encoder-based movement control and obstacle detection devices for sliding gates of up to 800 Kg / 1,760 lb and 20 m / 65.62 ft in length.
Complete automation system with 24 V DC operator - tested in compliance with EN 12453 - EN 12445	
001BX-246	Automation system complete with control board, radio decoder, encoder-based movement control and obstacle detection devices, plus mechanical endstops for sliding gates of up to 600 Kg / 1,320 lb and max 18 m / 59.05 ft in length. Fitted to take n. 2 12 V - 1.2 Ah batteries.
Accessories for: 001BX-10	
002RSE	Combined opening function management card.
Accessories for: 001BX-246	
002LBD2	Card for connecting n. 2 12 V – 1.2 Ah emergency batteries.
Accessories	
001R001	Lock cylinder with DIN key.
001B4337	Chain transmission device.
009CCT	1/2 in simple chain.
009CGIU	Joint for 1/2 in chain.
Racks	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZP	Rack in PA6 nylon and fibreglass with steel core 20 x 20 mm / 0.78 x 0.78 in, with securing holes and distancers, for sliding gates of up to 600 Kg / 1,320 lb.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.



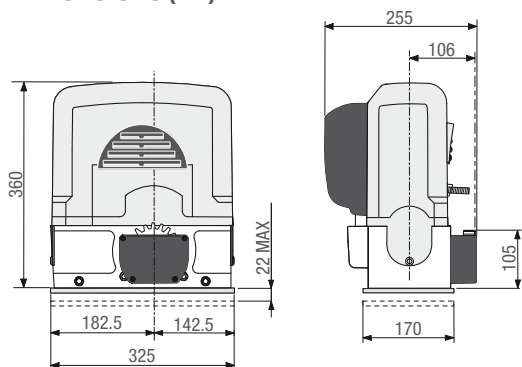
Gates of up to 2,200 Kg / 4,850 lb

The ideal solution to apply to high volume of transit and industrial facilities



- Flexibility and safety thanks to a complete range designed to different types of fuse, from industrial to intensive settings.
- Self-diagnosing safety devices.
- A broad range of automated devices even with encoder-based movement control.
- Can also control additional lighting of the passage area.
- PRATICO SYSTEM: to activate the radio release patented by Came, just add a snap-in radiofrequency card (this option is not possible for the 001AF30 and 001AF40 cards).
- Module 4 or 6 pinions for fluid and linear transmission of the rack movement.
- 001BK-2200T: powered by a 3-phase voltage to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BK-800	BK-1200	BK-1200P	BK-1800	BK-2200	BK-221	BK-2200T
Max gate-leaf weight (Kg/lb)	800/1,760	1,200/2,640	1,200/2,640	1,800/3,970	2,200/4,850	2,200/4,850	2,200/4,850
Max gate-leaf length (m/ft)	20/65.61	20/65.61	14/45.93	20/65.61	20/65.61	20/65.61	23/75.45
Pinion module (m)	4	4	4	4	6	4	6

MODEL	BKE-1200	BKE-1800	BKE-2200
Max gate-leaf weight (Kg/lb)	1,200/2,640	1,800/3,970	2,200/4,850
Max gate-leaf length (m/ft)	13/42.65	13/42.65	13/42.65
Pinion module (m)	4	4	6

NOTES:

For the activation of the 001BK-1200P's release device you need a plug-in radio frequency card of the same series you use for the automation radio command (excluding: 001AF30 - 001AF40).

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC

Technical features

Type	BK-800	BK-1200 - BKE-1200	BK-1200P	BK-1800 - BKE-1800	BK-2200 - BKE-2200	BK-221	BK-2200T
Protection rating IP	IP54	IP54	IP54	IP54	IP54	IP54	IP54
Power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC	230 - 400 AC 3-PHASE
Motor power supply (V - 50/60 Hz)	230 AC	230 AC	230 AC	230 AC	230 AC	230 AC	230 - 400 AC 3-PHASE
Current draw (A)	4.5	3.3	3.3	4.2	5.1	5.1	1.5
Power (W)	520	380	380	480	580	580	600
Manoeuvre speed (m/min - ft/min)	10.5/ 34.44	10.5/ 34.44	14.5/ 47.57	10.5/ 34.44	10.5/ 34.44	10.5/ 34.44	10.5/ 34.44
Duty cycle (%)	INTENSIVE USE	50	30	50	50	INTENSIVE USE	50
Thrust (N)	800	850	850	1150	1500	1500	1650
Operating temperature (°C/°F)				-20 ÷ +55/-4 ÷ +131			
Motor thermo protection (°C/°F)	150/302	150/302	150/302	150/302	150/302	150/302	150/302

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC

The complete range



Code	Description
Complete automation systems with 230 V AC operator	
001BK-800	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 800 Kg / 1,760 lb and max 20 m / 65.62 ft in length.
001BK-1200	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 1,200 Kg / 2,640 lb and max 20 m / 65.62 ft in length.
001BK-1200P	Automation system complete with control board, built-in radio decoder and PRATICO SYSTEM radio release with a 12 V – 1.2 Ah battery for sliding gates of up to 1,200 Kg / 2,640 lb and max 14 m / 45.93 ft in length.
001BK-1800	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 1,800 Kg / 3,970 lb and 20 m / 65.62 ft in length.
001BK-2200	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 2,200 Kg / 4,850 lb and max 20 m / 65.62 ft in length.
001BK-221	Automation system complete with control board, radio decoder and mechanical endstops for sliding gates of up to 2,200 Kg / 4,850 lb and max 20 m / 65.62 ft in length.
001BKE-1200	Automation system complete with control board, built-in radio decoder, encoder-based movement control device for sliding gates of up to 1,200 Kg / 2,640 lb and max 13 m / 42.65 ft in length.
001BKE-1800	Automation system complete with control board, built-in radio decoder, encoder-based movement control device for sliding gates of up to 1,800 Kg / 3,970 lb and max 13 m / 42.65 ft in length.
001BKE-2200	Automation system complete with control board, built-in radio decoder, encoder-based movement control device for sliding gates of up to 2,200 Kg / 4,850 lb and max 13 m / 42.65 ft in length.
230 - 400 V AC 3-phase operator	
001BK-2200T	Operator for sliding gates of up to 2,200 Kg / 4,850 lb and max 23 m / 75.45 ft.
230 - 400 V AC 3-phase control panels	
002ZT6	Control panel with built-in radio decoder and auto-diagnosis of safety devices.
002ZT6C	Control panel, complete with safety block and buttons, built-in radio decoder and auto-diagnosis of safety devices.
Accessories	
001R001	Lock cylinder with DIN key.
001B4353	Chain transmission device.
009CCT	1/2 in simple chain.
009CGIU	Joint for 1/2 in chain.
Racks	
009CGZ	Galvanized rack in rolled steel 22 x 22 mm / 0.86 x 0.86 in.
009CGZS	Galvanized rack in rolled steel 30 x 8 mm / 1.18 x 0.31 in with securing holes and distancers.
009CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in.



By-3500T



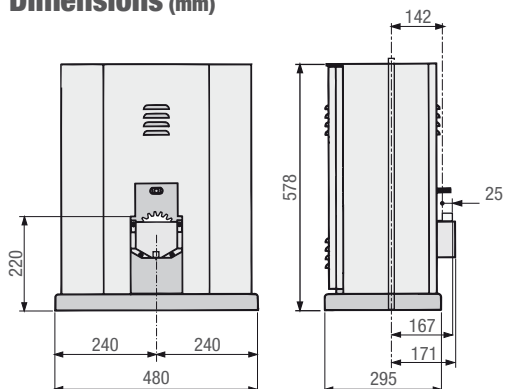
Gates of up to 3,500 Kg / 7,720 lb



The ideal solution to apply to large gates and in intensive use situations

- For very large sliding gates.
- Can also control additional lighting of the passage area.
- Sturdy mechanics to ensure exceptional performance.
- Self-diagnosing safety devices.
- Powered by a tri-phase voltage to ensure greater thrust.

Dimensions (mm)



Limits to use

MODEL	BY-3500T
Max gate-leaf weight (Kg/lb)	3,500/7,720
Max gate-leaf length (m/ft)	23/ 75.45
Pinion module (m)	6

● 230 - 400 AC 3-PHASE

Technical features

Type	BY-3500T
Protection rating IP	IP54
Power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
Motor power supply (V - 50/60 Hz)	230 - 400 AC 3-PHASE
Current draw (A)	2
Power (W)	750
Manoeuvre speed (m/min - ft/min)	10.5/ 34.44
Duty cycle (%)	50
Thrust (N)	3500
Operating temperature (°C/°F)	-20 ÷ +55/-4 ÷ +131
Motor thermo protection (°C/°F)	150/302

● 230 - 400 AC 3-PHASE

The complete range



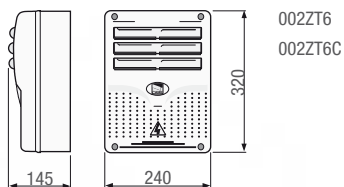
Code	Description
230 - 400 V AC 3-phase automation system	
001BY-3500T	Automation system complete with control board, built-in radio decoder and mechanical endstops for sliding gates of up to 3,500 Kg / 7,716 lb and max 23 m / 75.45 ft in length.
Cable collecting devices	
001BRC15	Power cable collecting device for safety sensitive edges for sliding gates of up to 15 m / 49.21 ft in length.
001BRCP	Aluminium profile for extension L = 5.10 m / 16.4 ft to couple with a 001BRC15. Application example: on 15 m sliding gate set up n. 1 001BRC15 + n. 3 001BRCP.
Rack	
009CGZ6	Galvanized rack in rolled steel 30 x 30 mm / 1.18 x 1.18 in.



Electronic functions

The table shows all of the control panels features dedicated to sliding-gate operators.
Those highlighted in bold are important when choosing which automation to install and should be considered from the start.

Dimensions (mm)





The models

Series	BX-243 BX-243C	BX-74 BX-78	BX-P	BX-246	BX-10	BK-800 BK-1200 BK-1800 BK-2200	BKE-1200 BKE-1800 BKE-2200	BK-1200P	BK-221	BK-2200T BY-3500T
Type	ZN2	ZBX74 ZBX-78	ZBX8	ZD2	ZBX10	ZBK	ZBKE	ZBK8	ZBK10	ZT6 ZT6C

SAFETY

SELF-DIAGNOSIS of safety devices	●			●	●	●	●	●	●	●
Opening and closing PRE-FLASHING	●	●	●	●	●	●	●	●	●	●
RE-OPENING during closing	●	●	●	●	●	●	●	●	●	●
RE-CLOSING during opening	●	●		●	●	●			●	●
Obstacle STALL					●				●	
TOTAL STOP	●	●	●	●	●	●	●	●	●	●
PARTIAL STOP	●	●	●	●	●	●	●	●	●	●
OBSTACLE DETECTION in front of photocells	●	●	●	●	●	●	●	●	●	●
ENCODER	●						●			
MOVEMENT CONTROL and OBSTACLE DETECTION device		●		●	●				●	
AMPEROMETRIC DETECTION	●			●						

COMMAND

1 leaf PEDESTRIAN OPENING										
1 leaf PARTIAL OPENING	●	●	●	●	●	●	●	●	●	●
OPEN ONLY from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
OPEN ONLY or CLOSE ONLY button connection				●**	●	●	●	●	●	●
OPEN-STOP-CLOSE-STOP from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
OPEN-CLOSE-REVERSE from the transmitter and/or the button	●	●	●	●	●	●	●	●	●	●
MAINTAINED ACTION	●	●	●	●	●	●	●	●	●	●
1st leaf DELAYED OPENING										
2nd LEAF DELAYED CLOSING										
IMMEDIATE CLOSING										
EMERGENCY RELEASE from the transmitter			●					●		

FEATURES AND ADJUSTMENTS

FLASHING LIGHT connection	●	●	●	●	●	●	●	●	●	●
CYCLE LAMP connection		●	●		●	●	●		●	●
COURTESY LAMP connection					●	●	●		●	●
Antenna	●	●	●	●	●	●	●	●	●	●
OPEN WARNING LIGHT connection	●	●	●	●	●	●	●	●	●	●
CLOSE WARNING LIGHT connection		●	●						●	●
Contact output for 2nd RADIO CHANNEL		●		●		●	●			●
RUNNING TIME adjustment					●				●	
SELF-LEARNING of the transmitter's RADIO CODE	●	●	●	●	●	●	●	●	●	●
ELECTRO-LOCK/ELECTRO-RELEASE and/or RAM BLOW connection										
Adjustable AUTOMATIC RE-CLOSING TIME	●	●	●	●	●	●	●	●	●	●
OPENING and/or CLOSING slow-down	●	●		●	●				●	
EMERGENCY BATTERY operation (option)	●			●						
MASTER-SLAVE						●	●			●
Adjustable RUNNING and SLOW-DOWN SPEED	●	●*		●	●*				●*	
Signalling DISPLAY					●				●	
Electronic BRAKE		●		●	●	●	●		●	●
Opening and closing endstop SELF-LEARNING										

● 230 - 400 AC 3-PHASE - ● 230 V AC - ● 24 V DC INTENSIVE USE

NOTE:

* For 001BX-10 - 001BX-74 - 001BX-78 and 001BK-221 only slow-down speed.

** For 001BX-246 ONLY OPEN function.